UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,005	09/12/2000	Thomas E. Saulpaugh	5181-66200	6061

7590 03/30/2004

ATTEN: ROBERT C. KOWERT
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EXAMINER
PHAN, TAM T

ART UNIT	PAPER NUMBER
2144	6

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)	
Office Action Summary		09/660,005	SAULPAUGH ET AL.	
		Examiner	Art Unit	
		Tam (Jenny) Phan	2144	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _17 September 2001_.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-28_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-28_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _12 September 2000_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _4,5_.

4)☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Priority

1.   This application claims benefit of the provisional application 60/202,975 (05/09/2000),

60/208,011 (05/26/2000), 60/209,430 (06/02/2000), 60209,140 (06/02/2000), 60/209,525

(06/05/2000).

2.   The effective filing date for the subject matter defined in the pending claims, which has

support in parent provisional application is the filing date of that provisional application. Any

new subject mater defined in the claims not previously disclosed in parent provisional

application, is entitled to the effective filing date of 09/12/2000.

Information Disclosure Statement

3.   An initialed and dated copy of Applicant's IDS form 1449, Paper No. 4,5, is attached to

the instant Office action.

Claim Rejections - 35 USC § 103

4.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

5.   Claims 1-7, 14-20, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Liao et al. (U.S. Patent Number 6,606,663), hereinafter referred to as Liao, in view of Schwartz

et al. (U.S. Patent No. 6,473,609), hereinafter referred to as Schwartz.

6.   Regarding claim 1, Liao disclosed a method for accessing services comprising: receiving

an address for a service within the distributed computing environment; linking said address to a

pre-generated message interface for accessing said service, wherein said message interface

comprises computer-executable code built in to said device (Figures 1-3, column 4 lines 35-48,

column 6 lines 1-15, column 12 lines 36-53).

7.   Liao taught the invention substantially as claimed. However, Liao did not specifically

teach a method wherein said linking creates a message endpoint for said device to send messages

to said service at said address in order to access said service and using said message endpoint to

send messages to said address to access said service.

8.   Liao suggested exploration of art and/or provided a reason to modify the method with the

message endpoint feature (column 6 lines 1-15, column 8 lines 6-23).

9.   In an analogous art, Schwartz disclosed a method wherein said linking creates a message

endpoint for said device to send messages to said service at said address in order to access said

service and using said message endpoint to send messages to said address to access said service

(Figures 3A-4, column 2 lines 50-67, column 3 lines 37-54, column 8 lines 46-67).

10.   It would have been obvious to one of ordinary skill in the art at the time of the invention

was made to modify the method of Liao with the teachings of Schwartz to include the message

endpoint feature in order to enable mobile devices to access information on the Internet without

requiring large computing resources (Schwartz, column 2 lines 11-15) since mobile devices

typically do not have the computing resources to implement HTTP to run an HTML browser

(Schwartz, column 6 lines 51-64).

11.   Regarding claim 2, Schwartz disclosed a method further comprising said message

interface of said message endpoint verifying that said messages sent to said service comply with

a message schema for said service (Figures 3A-4, column 8 lines 46-67, column 10 lines 18-35).

12.   Regarding claim 3, Liao disclosed a method wherein said message schema messages to be sent to and received from said service, wherein said messages are defined in a data representation language (Figures 2-3, column 5 lines 5-26).

13.   Regarding claim 4, Schwartz disclosed a method wherein said data representation language is eXtensible Markup Language (column 8 lines 44-67, column 23 lines 23-28).

14.   Regarding claim 5, Liao disclosed a method further comprising: receiving an authentication credential indicating authorization to access said service; and wherein said linking comprises linking, said authentication credential to said pre-generated message interface, wherein said message endpoint is configured to include said authentication credential with each message sent to said address (Title, Abstract, Figure 3, column 7 lines 55-67, column 8 lines 1-5, lines 24-41).

15.   Regarding claim 6, Liao disclosed a method further comprising: locating a service advertisement for said service, wherein said service advertisement indicates an authentication service; and requesting said authentication credential from said authentication service to access said service; and wherein said receiving an authentication credential comprises receiving said authentication credential from said authentication service (Title, Abstract, Figure 3, column 7 lines 55-67, column 8 lines 24-41, column 9 lines 46-67).

16.   Regarding claim 7, Schwartz disclosed a method further comprising: locating a service advertisement for said service, wherein said service advertisement comprises said address for said service and indicates a message schema for said service; wherein said receiving an address comprises receiving said address from said service advertisement; and wherein said linking comprises verifying that said pre-generated message interface corresponds to said message

schema (Figures 1, 3A-4, 6, 8A-8B, column 2 lines 50-67, column 3 lines 37-61, column 8 lines 46-67).

17.   Regarding claims 14-20, the device in a distributed computing environment corresponds to the method of claims 1-7, and thus these claims are rejected using the same rationale.

18.   Regarding claim 27, the carrier medium comprising instructions corresponds directly to the method of claim 1, and is rejected using the same rationale.

19.   Since all the limitations of the claimed invention were disclosed by the combination of Liao and Schwartz, claims 1-7, 14-20, and 27 are rejected.

20.   Claims 8-14, 21-26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hind et al. (U.S. Patent Number 6,585,778), hereinafter referred to as Hind, in view of Lee et al. (U.S. Patent No. 6,336,137), hereinafter referred to as Lee.

21.   Regarding claim 8, Hind disclosed a method for accessing services, the method comprising: receiving a schema defining messages for accessing the service; generating message endpoint code according to said schema (Abstract, Figures 2-4, column 4 lines 16-32, lines 50-59, column 7 lines 9-18).

22.   Hind taught the invention substantially as claimed. However, Hind did not specifically teach linking said message endpoint code into executable operating code for the device and loading the message endpoint code and operating code onto the device.

23.   Hind suggested exploration of art and/or provided a reason to modify the method with linking said message endpoint code into executable operating code for the device and loading the message endpoint code and operating code onto the device (Figure 6, column 13 lines 22-31).

24.   In an analogous art, Lee disclosed linking said message endpoint code into executable

operating code for the device and loading the message endpoint code and operating code onto the

device (Figures 2-4, column 9 lines 21-45, column 12 lines 22-38).

25.   It would have been obvious to one of ordinary skill in the art at the time of the invention

was made to modify the method of Hind with the teachings of Lee to include the linking message

endpoint code into executable operating code for the device in order to reduce computing power

and memory since wireless or handheld environment are physically small, have low processor

power, have low memory capacity, and have narrow bandwidths (Lee, column 1 lines 56-62).

26.   Regarding claim 9, Lee disclosed a method wherein said message endpoint is configured

to verify that said messages sent from the device to the service comply with said schema (Title,

Figure 4, column 5 lines 26-50, column 7 lines 10-24).

27.   Regarding claim 10, Hind disclosed a method wherein said schema defines messages to

be sent to and received from the service wherein said messages are defined in a data

representation language (Figures 3-4, column 7 lines 19-33, column 9 lines 27-35).

28.   Regarding claim 11, Hind disclosed a method wherein said data representation language

is eXtensible Markup Language (Figures 3-4, column 7 lines 19-33).

29.   Regarding claim 12, Lee disclosed a method wherein said generating comprises

generating Java source code for said message endpoint and compiling said Java source code into

bytecode (column 7 lines 25-43, column 8 lines 47-65).

30.   Regarding claim 13, Lee disclosed a method further comprising repeating said receiving,

said generating, and said linking for one or more additional schema corresponding to additional

services (Figures 4-5, column 4 lines 24-35, column 9 lines 21-45).

31.   Regarding claims 21-26, the tool for pre-generating corresponds to the method of claims

8-13, and thus these claims are rejected using the same rationale.

32.   Regarding claim 28, the carrier medium comprising instructions corresponds directly to

the method of claim 8, and is rejected using the same rationale.

33.   Since all the limitations of the claimed invention were disclosed by the combination of

Hind and Lee, claims 8-14, 21-26, and 28 are rejected.

Conclusion

34.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

     a.   Bayeh et al. (U.S. Patent Number 6,012,098) disclosed a technique, system, and

computer program using java servlets to retrieve information from various data streams

wherein the data stream is formatted as an XML, HTML, XSL, or CSS.

     b.   De Boor et al. (U.S. Patent Number 6,173,316) disclosed a system, method, and

software product provide a wireless communications device with a markup language

based interface. The interface provides a user interface for the various

telecommunications functionality of the wireless communication device, including

dialing telephone numbers, answering telephone calls, creating messages, sending

messages, receiving messages, establishing configuration settings, which is defined in

markup language, such as HTML, and accessed through a browser program executed by

the wireless communication device. This feature enables direct access to Internet and

World Wide Web content, such as Web pages, to be directly integrated with

telecommunication functions of the device, and allows Web content to be seamlessly

integrated with other types of data, since all data presented to the user via the user

! interface is presented via markup language-based pages.

35.   Refer to the enclosed PTO-892 for details and complete listing of other pertinent prior art

of record.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tam (Jenny) Phan whose telephone number is (703) 305-4665.

The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Harvey can be reached on (703) 305-9705. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 746-7239 for regular

communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

Jack Harvey
SPE
Art Unit 2142
703-305-9705

tp
March 17, 2004

JACK B. HARVEY
SUPERVISORY PATENT EXAMINER